

APPARATUS AND METHOD TO CONTROL ACCESS TO LOGICAL VOLUMES USING ONE OR MORE COPY SERVICES

Abstract

A method to control access to logical volumes disposed in one or more
5 information storage and retrieval systems when using copy service relationships. The
method provides a first information storage and retrieval system, a second information
storage and retrieval system, and a plurality of host computers capable of communicating
with the first information storage and retrieval system. The method forms (N) host
computer group, and assigns each of the plurality of host computers to the a host
10 computer group. The method forms (N) logical volume groups, and assigns one or more
of the plurality of first logical volumes to a logical volume group. The method receives a
request from a host computer assigned to the (i)th host computer group to establish a
copy service relationship between a source logical volume and a target logical volume.
The method determines if both the source and target logical volumes are assigned to the
15 (i)th logical volume group. If both the source and target logical volumes are assigned to
the (i)th logical volume group, then the method establishes the requested copy service
relationship.